

17 Rec'd PCT/PTO *PCT* 04 OCT 2004

CASE D0185 US PCT  
**10/501035**

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Stephen C. D'Amico  
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Signature

9-27-04  
Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

HUANG ET AL.

APPLICATION NO: 10/501,035

FILED: JULY 9, 2004

FOR: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE  
FOR PREDICTING ACTIVITY OF COMPOUNDS THAT INTERACT  
WITH PROTEIN TYROSINE KINASES AND/OR PROTEIN  
TYROSINE KINASE PATHWAYS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This paper is being filed within three months of the filing date of the application. Therefore, no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-3880.


In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Copies of these references are enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

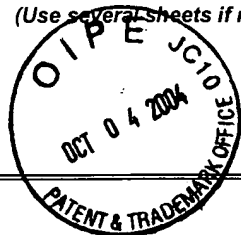
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Stephen C. D'Amico  
Agent for Applicants  
Reg. No. 46,652

Date: 9-27-04

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.  
D0185 US PCT  
APPLICATION NO.  
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APPLICANT  
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## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE     | NAME           | CLASS | SUBCLASS | FILING DATE |
|---------------------|----|-----------------|----------|----------------|-------|----------|-------------|
|                     | AA | 4,444,887       | 4/24/84  | Hoffmann       |       |          |             |
|                     | AB | 4,474,893       | 10/2/84  | Reading        |       |          |             |
|                     | AC | 4,631,211       | 12/23/86 | Houghten       |       |          |             |
|                     | AD | 4,676,980       | 6/30/87  | Segal et al.   |       |          |             |
|                     | AE | 4,714,681       | 12/22/87 | Reading        |       |          |             |
|                     | AF | 4,716,111       | 12/29/87 | Osband et al.  |       |          |             |
|                     | AG | 4,741,900       | 5/3/88   | Alvarez et al. |       |          |             |
|                     | AH | 4,816,397       | 3/28/89  | Boss et al.    |       |          |             |
|                     | AI | 4,816,567       | 3/28/89  | Cabilly et al. |       |          |             |
|                     | AJ | 4,925,648       | 5/15/90  | Hansen et al.  |       |          |             |
|                     | AK | 4,946,778       | 8/7/90   | Ladner et al.  |       |          |             |
|                     | AL | 5,010,175       | 4/23/91  | Rutter et al.  |       |          |             |

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|  |    | DOCUMENT NUMBER | DATE    | OFFICE | CLASS | SUBCLASS | TRANSLATION<br>YES NO    |                          |
|--|----|-----------------|---------|--------|-------|----------|--------------------------|--------------------------|
|  | AM | EP 0 171 496    | 5/26/93 | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | AN | EP 0 173 494    | 3/5/86  | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | AO | EP 0 239 400    | 8/3/94  | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | AP | EP 0 307 434    | 7/29/98 | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | AQ | EP 0 322 094    | 12/2/92 | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |

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|  | AR | Alizadeh, A.A. et al., "Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling", Nature, Vol. 403, pp. 503-511 (2000)   |
|  | AS | Ames, R.S. et al., "Conversion of murine Fabs isolated from a combinatorial phage display library to full length immunoglobulins", Journal of Immunological Methods, Vol. 184, pp. 177-186 (1995)              |
|  | AT | Arnon, R. et al., "Monoclonal Antibodies for Immunotargeting of Drugs in Cancer Therapy", Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc., publ., Reisfeld, R.A. et al., eds., pp. 243-256 (1985) |

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|                     | 2AA | 5,112,946       | 5/12/92  | Maione              |       |          |                |
|                     | 2AB | 5,122,464       | 6/16/92  | Wilson et al.       |       |          |                |
|                     | 2AC | 5,223,409       | 6/29/93  | Ladner et al.       |       |          |                |
|                     | 2AD | 5,225,539       | 7/6/93   | Winter              |       |          |                |
|                     | 2AE | 5,258,498       | 11/2/93  | Huston et al.       |       |          |                |
|                     | 2AF | 5,288,514       | 2/22/94  | Ellman              |       |          |                |
|                     | 2AG | 5,314,995       | 5/24/94  | Fell, Jr. et al.    |       |          |                |
|                     | 2AH | 5,336,603       | 8/9/94   | Capon et al.        |       |          |                |
|                     | 2AI | 5,349,053       | 9/20/94  | Landolfi            |       |          |                |
|                     | 2AJ | 5,359,046       | 10/25/94 | Capon et al.        |       |          |                |
|                     | 2AK | 5,403,484       | 4/4/95   | Ladner et al.       |       |          |                |
|                     | 2AL | 5,413,923       | 5/9/95   | Kucherlapati et al. |       |          |                |

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|--|-----|-----------------|----------|--------|-------|----------|--------------------------|--------------------------|
|  |     |                 |          |        |       |          | YES                      | NO                       |
|  | 2AM | EP 0 367 166    | 5/9/90   | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 2AN | EP 0 394 827    | 10/31/90 | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 2AO | EP 0 396 387    | 12/22/93 | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 2AP | EP 0 413 622    | 2/11/98  | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 2AQ | EP 0 439 095    | 5/20/98  | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |

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|  | 2AR | Ashkenazi, A. et al., "Protection against endotoxic shock by a tumor necrosis factor receptor immunoadhesin", Proc. Natl. Acad. Sci. USA, Vol. 88, pp. 10535-10539 (1991)               |
|  | 2AS | Ausubel, F.M. et al., eds., Current Protocols in Molecular Biology, Vols. 1, 2, 3 and 4, John Wiley & Sons, Inc., publ., pp. 1-11 (table of contents) (2001)                            |
|  | 2AT | Ausubel, F.M. et al., eds., Unit 2.10: "Hybridization Analysis of DNA Blots", Current Protocols in Molecular Biology, Vol. 1, John Wiley & Sons, Inc., publ., pp. 2.10.1-2.10.16 (1993) |

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|                     | 3AA | 5,427,908       | 6/27/95  | Dower et al.      |       |          |                |
|                     | 3AB | 5,447,851       | 9/5/95   | Beutler et al.    |       |          |                |
|                     | 3AC | 5,474,981       | 12/12/95 | Leder et al.      |       |          |                |
|                     | 3AD | 5,506,337       | 4/9/96   | Summerton et al.  |       |          |                |
|                     | 3AE | 5,516,637       | 5/14/96  | Huang et al.      |       |          |                |
|                     | 3AF | 5,519,134       | 5/21/96  | Acevedo et al.    |       |          |                |
|                     | 3AG | 5,525,735       | 6/11/96  | Gallop et al.     |       |          |                |
|                     | 3AH | 5,530,101       | 6/25/96  | Queen et al.      |       |          |                |
|                     | 3AI | 5,539,083       | 7/23/96  | Cook et al.       |       |          |                |
|                     | 3AJ | 5,545,806       | 8/13/96  | Lonberg et al.    |       |          |                |
|                     | 3AK | 5,549,974       | 8/27/96  | Holmes            |       |          |                |
|                     | 3AL | 5,565,332       | 10/15/96 | Hoogenboom et al. |       |          |                |

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|--|-----|-----------------|----------|--------|-------|----------|--------------------------|--------------------------|
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|  | 3AM | EP 0 519 596    | 12/23/92 | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 3AN | EP 0 592 106    | 4/13/94  | EP     |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 3AO | WO 86/01533     | 3/13/86  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 3AP | WO 86/05807     | 10/9/86  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 3AQ | WO 87/02671     | 5/7/87   | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |

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|  | 3AR | Ausubel, F.M. et al., eds., Unit 6.3: "Using DNA Fragments as Probes", Current Protocols in Molecular Biology, Vol. 1, John Wiley & Sons, Inc., publ., pp. 6.3.1-6.3.6 (1993)          |
|  | 3AS | Ausubel, F.M. et al., eds., Unit 10.8: "Immunoblotting and Immunodetection", Current Protocols in Molecular Biology, Vol. 2, John Wiley & Sons, Inc., publ., pp. 10.8.1-10.8.21 (1997) |
|  | 3AT | Ausubel, F.M. et al., eds., Unit 10.16: "Immunoprecipitation", Current Protocols in Molecular Biology, Vol. 2, John Wiley & Sons, Inc., publ., pp. 10.16.1-10.16.29 (1999)             |

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|                     | 4AA | 5,569,588       | 10/29/96 | Ashby et al.   |       |          |                |
|                     | 4AB | 5,569,825       | 10/29/96 | Lonberg et al. |       |          |                |
|                     | 4AC | 5,571,698       | 11/5/96  | Ladner et al.  |       |          |                |
|                     | 4AD | 5,573,920       | 11/12/96 | Randle         |       |          |                |
|                     | 4AE | 5,580,717       | 12/3/96  | Dower et al.   |       |          |                |
|                     | 4AF | 5,585,089       | 12/17/96 | Queen et al.   |       |          |                |
|                     | 4AG | 5,593,853       | 1/14/97  | Chen et al.    |       |          |                |
|                     | 4AH | 5,601,819       | 2/11/97  | Wong et al.    |       |          |                |
|                     | 4AI | 5,605,793       | 2/25/97  | Stemmer        |       |          |                |
|                     | 4AJ | 5,622,929       | 4/22/97  | Willner et al. |       |          |                |
|                     | 4AK | 5,625,126       | 4/29/97  | Lonberg et al. |       |          |                |
|                     | 4AL | 5,633,425       | 5/27/97  | Lonberg et al. |       |          |                |

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|  |     |                 |          |        |       |          | YES                      | NO                       |
|  | 4AM | WO 87/04462     | 7/30/87  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 4AN | WO 89/01036     | 2/9/89   | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 4AO | WO 89/10404     | 11/2/89  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 4AP | WO 89/12624     | 12/28/89 | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 4AQ | WO 90/02809     | 3/22/90  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |

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|  | 4AT | Bebbington, C.R. et al., "High-Level Expression of a Recombinant Antibody from Myeloma Cells Using a Glutamine Synthetase Gene as an Amplifiable Selectable Marker", Bio/Technology, Vol. 10, pp. 169-175 (1992) |

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|                     | 5AA | 5,652,361       | 7/29/97  | Simon et al.    |       |          |                |
|                     | 5AB | 5,658,727       | 8/19/97  | Barbas et al.   |       |          |                |
|                     | 5AC | 5,661,016       | 8/26/97  | Lonberg et al.  |       |          |                |
|                     | 5AD | 5,698,426       | 12/16/97 | Huse            |       |          |                |
|                     | 5AE | 5,733,743       | 3/31/98  | Johnson et al.  |       |          |                |
|                     | 5AF | 5,750,753       | 5/12/98  | Kimae et al.    |       |          |                |
|                     | 5AG | 5,756,065       | 5/26/98  | Wilson et al.   |       |          |                |
|                     | 5AH | 5,766,883       | 6/16/98  | Ballance et al. |       |          |                |
|                     | 5AI | 5,780,225       | 7/14/98  | Wigler et al.   |       |          |                |
|                     | 5AJ | 5,807,715       | 9/15/98  | Morrison et al. |       |          |                |
|                     | 5AK | 5,811,238       | 9/22/98  | Stemmer et al.  |       |          |                |
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|--|-----|-----------------|---------|--------|-------|----------|--------------------------|--------------------------|
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|  | 5AM | WO 91/00360     | 1/10/91 | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 5AN | WO 91/06570     | 5/16/91 | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 5AO | WO 91/06657     | 5/16/91 | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 5AP | WO 91/09967     | 7/11/91 | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 5AQ | WO 91/10737     | 7/25/91 | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |

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|  | 5AR | Bennett, D. et al., "Kinetic Characterization of the Interaction of Biotinylated Human Interleukin 5 with an Fc Chimera of its Receptor $\alpha$ Subunit and Development of an ELISA Screening Assay using Real-Time Interaction Biosensor Analysis", Journal of Molecular Recognition, Vol. 8, pp. 52-58 (1995) |
|  | 5AS | Better, M. et al., "Escherichia coli Secretion of an Active Chimeric Antibody Fragment", Science, Vol. 240, pp. 1041-1043 (1988)   |
|  | 5AT | Bibila, T.A. et al., "In Pursuit of the Optimal Fed-Batch Process for Monoclonal Antibody Production", Biotechnol. Prog., Vol. 11, No. 1, pp. 1-13 (1995)  |

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|                     | 6AA | 5,821,047       | 10/13/98 | Garrard et al.       |       |          |                |
|                     | 6AB | 5,830,721       | 11/3/98  | Stemmer et al.       |       |          |                |
|                     | 6AC | 5,834,252       | 11/10/98 | Stemmer et al.       |       |          |                |
|                     | 6AD | 5,837,458       | 11/17/98 | Minshull et al.      |       |          |                |
|                     | 6AE | 5,876,969       | 3/2/99   | Fleer et al.         |       |          |                |
|                     | 6AF | 5,885,793       | 3/23/99  | Griffiths et al.     |       |          |                |
|                     | 6AG | 5,916,771       | 6/29/99  | Hori et al.          |       |          |                |
|                     | 6AH | 5,939,598       | 8/17/99  | Kucheralapati et al. |       |          |                |
|                     | 6AI | 5,969,108       | 10/19/99 | McCafferty et al.    |       |          |                |
|                     | 6AJ | 5,985,660       | 11/16/99 | Galy                 |       |          |                |
|                     | 6AK | 6,020,141       | 2/1/00   | Pantoliano,et al.    |       |          |                |
|                     | 6AL | 6,036,920       | 3/14/00  | Pantoliano et al.    |       |          |                |

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|  | 6AM | WO 91/10741     | 7/25/91  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
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|  | 6AP | WO 92/00091     | 1/9/92   | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 6AQ | WO 92/01047     | 1/23/92  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |

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|  | 6AS | Bittner, M. et al., "Molecular classification of cutaneous malignant melanoma by gene expression profiling", Nature, Vol. 406, pp. 536-540 (2000) |
|  | 6AT | Blanchard, A.P. et al., "Sequence to array: Probing the genome's secrets", Nature Biotechnology, Vol. 14, pp. 1649-1651 (1996)                    |

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|                     | 7AB | 6,114,598       | 9/5/00  | Kucherlapati et al. |       |          |                |
|                     | AC  |                 |         |                     |       |          |                |
|                     | AD  |                 |         |                     |       |          |                |
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|  | 7AN | WO 92/08495     | 5/29/92  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 7AO | WO 92/08802     | 5/29/92  | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 7AP | WO 92/18619     | 10/29/92 | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 7AQ | WO 92/22324     | 12/23/92 | PCT    |       |          | <input type="checkbox"/> | <input type="checkbox"/> |

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|  |     | DOCUMENT NUMBER | DATE     | OFFICE | CLASS | SUBCLAS<br>S | TRANSLATION              |                          |
|--|-----|-----------------|----------|--------|-------|--------------|--------------------------|--------------------------|
|  |     |                 |          |        |       |              | YES                      | NO                       |
|  | 8AA | WO 93/11236     | 6/10/93  | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AB | WO 93/17715     | 9/16/93  | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AC | WO 93/20242     | 10/14/93 | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AD | WO 93/21232     | 10/28/93 | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AE | WO 95/15982     | 6/15/95  | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AF | WO 95/20401     | 8/3/95   | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AG | WO 96/04388     | 2/15/96  | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AH | WO 96/22024     | 7/25/96  | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AI | WO 96/33735     | 10/31/96 | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AJ | WO 96/34096     | 10/31/96 | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AK | WO 97/00271     | 1/3/97   | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AL | WO 97/46251     | 12/11/97 | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AM | WO 98/16654     | 4/23/98  | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AN | WO 98/24893     | 6/11/98  | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AO | WO 98/46645     | 10/22/98 | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AP | WO 98/50433     | 11/12/98 | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
|  | 8AQ | WO 99/04813     | 2/4/99   | PCT    |       |              | <input type="checkbox"/> | <input type="checkbox"/> |
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